MI Access

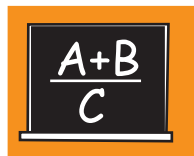**Michigan's Alternate Assessment Program**

Functional Independence
Fall 2013

Mathematics

Item Descriptors

Grade 8

MICHIGAN STATE BOARD OF EDUCATION
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DIRECTIONS: Read each question. Choose the **BEST** answer for each question.

NOTE: For each item listed throughout this booklet, the first statement is a summary of the Michigan Extended Grade Level Content Expectation (EGLCE) and the second statement or problem is the descriptor for the item's stem or question.

1 **N.MR.07.FI.EG07:** Find the next number in a simple repeating pattern

Describe rule to find number in decreasing skip-counting pattern

A decreasing, but under by 1

B correct

C decreasing, but over by 1

2 **N.ME.07.FI.EG03:** Express numbers to 100,000 using place value

Identify number in given place value

A numeral in greater place value location

B correct

C numeral in less place value location

3 **N.ME.07.FI.EG01:** Read, write, and count using whole numbers to 100,000

Translate word form of number to standard form

A incorrect in tens place

B correct

C incorrect in hundreds place

4 **N.ME.07.FI.EG04:** Compare and order numbers to 100,000

Identify number greater than given number

A correct

B less than given number

C less than given number

5 N.ME.07.FI.EG05: Round whole numbers

Round number in thousands to nearest hundred

A　200 less than correct number

B　rounded number over 50 down, i.e., 100 less than correct number

C　correct

6 M.UN.07.FI.EG11: Use equivalent calendar units

Translate years into months

A　1 year = 6 months

B　correct

C　1 year = 18 months

7 A.FO.07.FI.EG01: Solve applied problems involving rates

Calculate total distance given rate and time

A　correct

B　under by 20 miles

C　rate + time

8 N.ME.07.FI.EG15: Recognize, name, represent, and write commonly used unit fractions

Identify shaded figure

A　correct

B　too much shading

C　not enough shading

9 M.UN.07.FI.EG08: Measure perimeter

Calculate perimeter of rectangle given lengths of four sides

A　correct

B　4 times the width

C　4 times the length

10 M.UN.07.FI.EG07: Understand circumference

Identify characteristic of circle

A　incorrect characteristic of circle

B　incorrect characteristic of circle

C　correct

11 N.ME.07.FI.EG16: Place 0 and halves on a number line

Identify measurement shown on ruler

A   did not include fractional portion of measurement

B   correct

C   one inch greater

12 G.LO.07.FI.EG03: Read, interpret, and use maps and grids with legends

Follow directions to find location

A   incorrect location

B   incorrect location

C   correct

13 M.UN.07.FI.EG01: Select and use standard tools for measurement

Identify tool used to measure time

A   tool used to measure weight

B   correct

C   tool used to measure length

14 D.RE.07.FI.EG01: Read data from charts, tables, graphs, tallies, and pictographs

Identify minimum on bar graph

A   maximum

B   correct

C   neither minimum nor maximum

15 M.UN.07.FI.EG09: Convert units of measure

Convert feet to inches given 1 foot = 12 inches

A   subtracted feet from inches

B   added feet to inches

C   correct

16 M.UN.07.FI.EG10: Tell time on a radial or digital clock to the nearest half-hour

Tell time on analog clock

A   half hour earlier

B   correct

C   hour later

17 N.MR.07.FI.EG06: Create, describe, and extend simple number patterns

Find next number in skip-counting pattern given in table

A added 1 to previous number

B correct

C sum of all numbers in table

18 D.RE.07.FI.EG04: Solve problems using data in tables, graphs, tallies, and pictographs

Calculate total from table

A mode

B 10 fewer than total

C correct

19 M.UN.07.FI.EG03: Measure and compare integer temperatures

Identify warmest temperature

A coolest

B neither warmest nor coolest

C correct

20 D.RE.07.FI.EG03: Describe the shape of data using informal language

Describe data in line graph

A correct

B opposite trend

C incorrect trend

21 G.LO.07.FI.EG03: Read, interpret, and use maps and grids with legends

Interpret map

A correct

B incorrect direction

C opposite direction

22 G.LO.07.FI.EG02: Find and name locations using simple coordinate systems

Interpret grid to name location

A correct

B incorrect location

C incorrect location

23 A.FO.07.FI.EG02: Represent information using algebra

Translate multiplication word problem into number sentence

A addition sentence

B division sentence

C correct

24 N.MR.07.FI.EG24: Select appropriate numbers to solve problems

Add in context

A incorrect total

B incorrect total

C corrected

25 M.PS.07.FI.EG15: Add and subtract money in dollars and cents

Subtract money in decimal form in context

A correct

B subtracted smaller vaues from larger values with dollars

C added

26 M.UN.07.FI.EG13: Recognize equivalent sets of coins and bills

Recognize equivalent set of coins

A over by 1 dime

B correct

C nickel instead of quarter

27 N.MR.07.FI.EG10: Solve simple open sentences

Multiply two 1-digit numbers

A added

B used one incorrect factor

C correct

28 N.MR.07.FI.EG21: Multiply fractions by whole numbers

Identify equivalent expression to multiplying a whole number by a unit fraction

A correct

B $a \times 1/b = a + a + \ldots + a$ (b addends)

C $a \times 1/b = a + 1/b + \ldots + a + 1/b$ (b addends)

29 N.ME.07.FI.EG20: Understand sum of unit fractions

Add three unit fractions

A $1/x + 1/x + 1/x = 1/x$

B $1/x + 1/x + 1/x = 3/(3x)$

C   correct

30 N.ME.07.FI.EG22: Use decimal fractions up to 2 decimals

Translate fraction in context to decimals

A   one-tenth of correct decimal

B   correct

C   ten times correct decimal

31 N.FL.07.FI.EG13: Calculate simple products

Multiply two 2-digit numbers

A   added

B   used one incorrect factor

C   correct

32 N.MR.07.FI.EG25: Solve applied problems

Multiply two 2-digit numbers

A   under by 20

B   correct

C   over by 5

33 N.FL.07.FI.EG23: Apply estimation in solving problems

Estimate subtraction in context

A   overestimate

B   overestimate

C   correct

34 N.FL.07.FI.EG13: Calculate simple products

Multiply or use repeated addition in word problem

A   used incorrect factor (or did not include one addend)

B   under by 5

C   correct

35 M.PS.07.FI.EG12: Solve one- or two-step word problems

Determine time elapsed in context

A   correct

B   over by 1 hour

C   over by 2 hours

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